

A Contribution to the Knowledge of the Flora of Nippon.

(Continued from p. 16.)

By Tomitarô Makino, Sc. D.

Oryza sativa L. var. **glutinosa** (LOUR) MATSUM. Shokubutsu-Mei, ed. 2. (1895), p. 199.

Oryza glutinosa LOUR. Fl. Cochinch. ed. WILLD. p. 267.

Nom. Nipp. *Mochi-gome*, *Mochi*.

Hab. NIPPON, cultivated (T. MAKINO!).

The husk is usually brown, awned or awnless.

Rhododendron Makino TAGG. α . **typicum** MAKINO.

Corolla rose-purple.

Nom. Nipp. *Hosoba-shakunage*, *Enshû-shakunage*.

Hab. MIKAWA (T. MURANO!).

var. β . **roseum** MAKINO, nov. var.

Corolla rosaceous.

Nom. Nipp. *Momoiro-hosobashakunage* (nov.).

Hab. MIKAWA (T. MURANO!).

var. γ . **basirosaceum** MAKINO, nov. var.

Corolla at first dilute-rosaceous, then white but only dilute-rosaceous towards the base.

Nom. Nipp. *Tokiuro-hosobashakunage* (nov.).

Hab. MIKAWA (T. MURANO!).

var. δ . **leucanthum** MAKINO, nov. var.

Corolla white.

Nom. Nipp. *Shirobana-hosobashakunage* (nov.).

Hab. MIKAWA (T. MURANO!).

Rhododendron mucronatum G. DON, var. **pancratiform** MAKINO, nov. var.

Sepals 5, green, linear-lanceolate, obtuse at the apex, glandular-ciliated on margins, glandular-pubescent externally, glabrous internally, about 10mm. long, 3-3½mm. wide. Corolla normal. Stamens 10 or fewer, petaloid, shorter and slightly longer than the half-length of the corolla, orbicular or ovato-orbicular, cuneately unguiculate, each bearing an incomplete pale-yellowish anther at the emarginate apex. Ovary: carpel herbaeous, usually dehiscing on one-side, pubescent, with many petaloid white blades; style short, erect, green, pubescent.

Nom. Nipp. *Fukidzume-rhûkyû* (nov.).

Hab. NIPPON, gardens (T. MAKINO!).

***Pritillaria camschatcensis* (L.) KER-GAWL. var. *Keisukei* MAKINO, nov. var.**

Leaves narrower, narrowly lanceolate. Flower dark-purple. Perianth connivent; segments narrow, linear-oblongate, acutish at the apex.

Nom. Nipp. *Shinano-kuroyuri* (nov.).

Hab. Prov. SHINANO: Mt. Komagadake (after ITÔ KEISUKE).

Icon. ITÔ KEISUKE, Nippon-sammotsu-shi, Shinano, 2, fol. 2, recto.

var. ***flavescens* MAKINO, nov. var.**

Flower greenish-yellow then yellow.

Nom. Nipp. *Kibana-kuroyuri* (nov.).

Hab. HOKKAIDÔ.

***Chenopodium anthelminticum* L. var. *pubescens* MAKINO, nov. var.**

Perennial. Stem pubescent with patent pale translucent hairs. Leaves pubescent with patent pale translucent hairs on the midrib and veins or main venules beneath.

Nom. Nipp. *Ké-americanitasô* (nov.).

Hab. NIPPON, naturalized (T. MAKINO!).

***Rehmannia glutinosa* LIBOSCH. var. *japonica* (THUNB.) MAKINO, nov. comb.**

Melittis japonica THUNB. Ic. Pl. Jap. Dec. 3, tab. 8, et in Trans. Linn. Soc. II. p. 338; MIQ. Prov. Fl. Jap. p. 55; MAXIM, in Mém. Biol. IX, p. 371.

Rehmannia japonica MAKINO, MSS.

Melittis melissophyllum THUNB. Fl. Jap. p. 248, non L.

Rehmannia glutinosa var. *Makinoi* MATSUDA in Bot. Mag., Tokyo, XXXII. (1918), p. 142.

Nom. Nipp. *Hana-dziô*, *Senri-goma*.

Hab. NIPPON, cultivated from China.

***Wistaria floribunda* DC. var. *albo-rosea* MAKINO, nov. var.**

Kraunhia floribunda var. *albo-rosea* MAKINO, MSS.

Flower: calyx dark-violaceous, whitish toward the margin; standard white and with rose-purplish shade, yellowish above the scaly appendages below internally; wings and keel white but rose-purplish above.

Nom. Nipp. *Akebono-fudzi* (nov.).

Hab. Prov. BÔSHÛ: Kominato, cultivated (T. MAKINO!).

***Brassica campestris* L. subsp. *Napus* (L.) HOOK. FIL ET ANDERS. var. *Mana* MAKINO, nov. var.**

Biennial. Radical leaves closely fasciculate, amplexicaul at the base, erect or erect-patent but spreading above, sessile or very shortly petiolate, rounded

or obovato-rounded above, cuneate with the broadly alate blades towards the base, about 24-47cm. long, 10-24cm. wide, thickish, flaccid, glabrous, bright-green and slightly shining above, glaucously light green beneath, emarginate or retuse or depressed-obtuse with a mucronate tip at the apex, shallowly lobed (but sometimes more or less deeply lobed in the middle portion) and irregularly depressed-dentate with depressed-deltoid mucronate-tipped teeth, but patently and irregularly dentate with deltoid mucronate-tipped acute teeth in the lower half; midrib stout, broad below, attenuatedly narrowed above, concave internally below, rounded and shallowly sulcate externally, thick, glaucous-white, $3\frac{1}{2}$ -5cm. broad; veins pinnate, white above, greenish-pale beneath, erect-patent but often more or less spreading below, prominent beneath, depressedly rounded above; veinlets impressed above, prominent and loosely reticulated beneath. Stem erect, attaining about 1m. or more in height, loosely ramose above, terete but sulcate, glaucously light green, glabrous. Cauline leaves auriculated and amplexicaul at the base, the lower ones obovato-elliptical, the superior ones ovato-lanceolate, mucronate-tipped depressed-crenate-dentate, but nearly entire in the uppermost one. Flowers yellow, about 10mm. across.

Nom. Nipp. *Mana*.

Hab. NIPPON, cultivated (T. MAKINO!).

This vegetable appears in markets in March-April.

forma pinnata MAKINO, nov. f.

Leaves coarsely pinnate or pinnatiparted excepting the superior portion with patent or erect-patent lobes; lobes larger above and gradually decreasing in size towards the lower, rounded oval elliptical or oblong, irregularly dentate with deltoid or depressed-deltoid mucronate-tipped teeth, more or less apart each other; midrib stout, concave in front, shallowly sulcate in back, thick, white.

Nom. Nipp. *Kireba-mana* (nov.).

Hab. NIPPON, cultivated (T. MAKINO!).

var. Ohsakana MAKINO, nov. var.

Biennial. Tap-root perpendicularly descending, obconically tapering towards the end, white, solid, hard, densely rooting. Radical leaves tufted, erect-patent below but spreading above, flaccid, rather thick in texture, glabrous, green above, light green beneath, emarginate with a mucronate tip at the apex, very depressedly mucronate-dentate; midrib broad, concave and white in front, often incurved and semiamplexicaul at the base, pale but rarely purplish-shaded and shallowly subsulcate and obscurely with pale-greenish vertical lines dorsally; veins pinnate, stronger in the upper 3, erect-patent, loose, depressedly prominent and pale above, pale or pale-greenish and prominent beneath; veinlets slightly impressed above, prominent and loosely reticulated beneath.

Nom. Nipp. *Osaka-na*, *Osaka-hakusai*.

Hab. NIPPON, cultivated (T. MAKINO!).

var. Wakana MAKINO, nov. var.

Biennial. Tap-root perpendicularly descending, short, oval or obovate-oval, suddenly short-tapering, white, transversely rugose, hard in texture, solid, about $2\frac{1}{2}$ -5cm. across, densely rooting excepting the base; neck thick, short. Radical leaves tufted, 24-35cm. long, 9-15cm. wide, erect-patent, spathulately broad-obovate or elliptical, cuneate below, long-alate towards the base, mucronately rounded or retuse or emarginate at the apex, numerous very depressedly mucronate-dentate on the margins but the alate portion sometimes coarsely dentate, glabrous on both surfaces, lustrous-deep-green but more or less subglaucous or glaucous above, yellowish green or light green and slightly lustrous but slightly subglaucous or glaucous beneath, thick in texture; midrib stout, strong, thick, concave and greenish-pale in front, shallowly sulcate subglaucous-pale-green or sometimes purplish dorsally, gradually dilated and semiamplexicaul at the base, attaining $3\frac{1}{2}$ cm. in width; veins pinnate, laxly close each other, erect-patent, prominent and light green sometimes purplish beneath, depressedly prominent and pale above; veinlets impressed above, prominent beneath, loosely reticulated, the reticulation more conspicuous towards the margin. Stem erect, thick, substrate, light-green, subglaucous, glabrous. Cauline-leaves cuneato-elliptical, auriculated and semi-amplexicaul at the base.

Nom. Nipp. *Waka-na*.

Hab. Prov. SETTSU: Nishinomiya, cultivated (T. MAKINO!).

var. Shigatsuna MAKINO, nov. var.

Biennial. Radical leaves tufted, erect-patent, oval and gradually long-attenuately cuneate towards the base, assuming a broad-spathulate form, glabrous, green and slightly lustrous above, subglauco-light-green beneath, rounded retuse or subemarginate with a mucronate tip at the apex, numerous very depressedly mucronato-denticulate or dentate, about 25-29cm. or more long, 10-12 $\frac{1}{2}$ cm. or more broad; midrib broad, $2\frac{1}{2}$ -4cm. wide at the base, shallowly concave excepting the upper portion which is depressed-prominent and white in front, shallowly sulcate with obscure vertical greenish lines and greenish-pale dorsally, not auriculated at the base; veins subflabellated with the upper portion of the midrib, prominent and greenish-pale beneath, prominent and white above; veinlets impressed above, prominent and reticulated beneath. Stem erect, thick, sulcate, glaucously pale-greenish, glabrous. Cauline leaves oblong, broad-lanceolate in the superior ones, auriculated at the base.

Nom. Nipp. *shigatsuna*.

Hab. Prov. YAMASHIRO: Ôhara, cultivated (T. MAKINO!).

forma pinnata MAKINO, nov. f.

Leaves lyrate-pinnate; the mid-lobe orbiculate or oval, lustrous-green above, yellowish light green and conspicuously reticulated with the veins and veinlets; lateral leaflets 3-4 on each side, much smaller than the mid-lobe; midrib hard, concave and greenish-pale in front, pale-greenish and subglaucous dorsally, about $2\frac{1}{2}$ -3cm. at the base.

Nom. Nipp. *Kireba-shigatsuna* (nov.).

Hab. Prov. YAMASHIRO: Ôhara, cultivated (T. MAKINO!).

This appears sometimes in gardens of *var. Shigatsuna*.

(To be continued.)